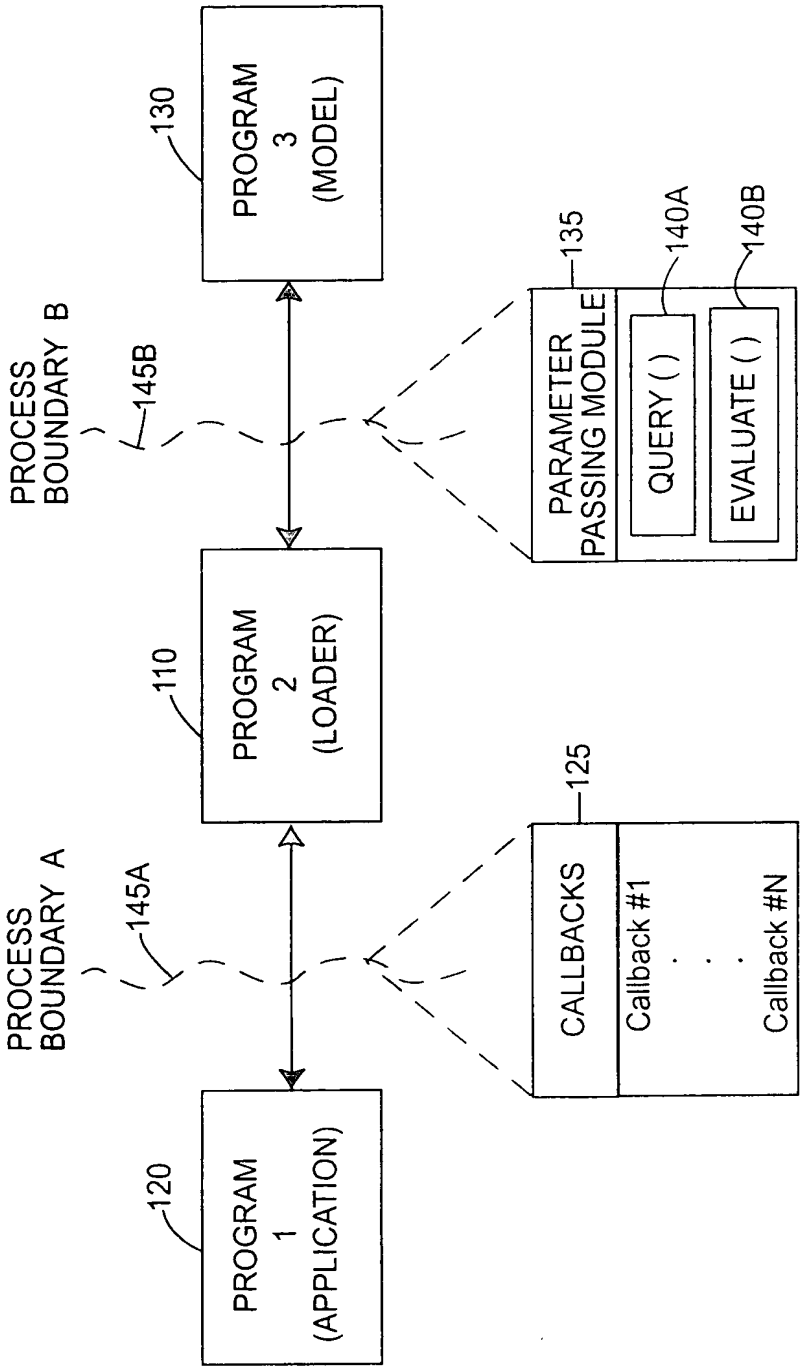

FIG. 1

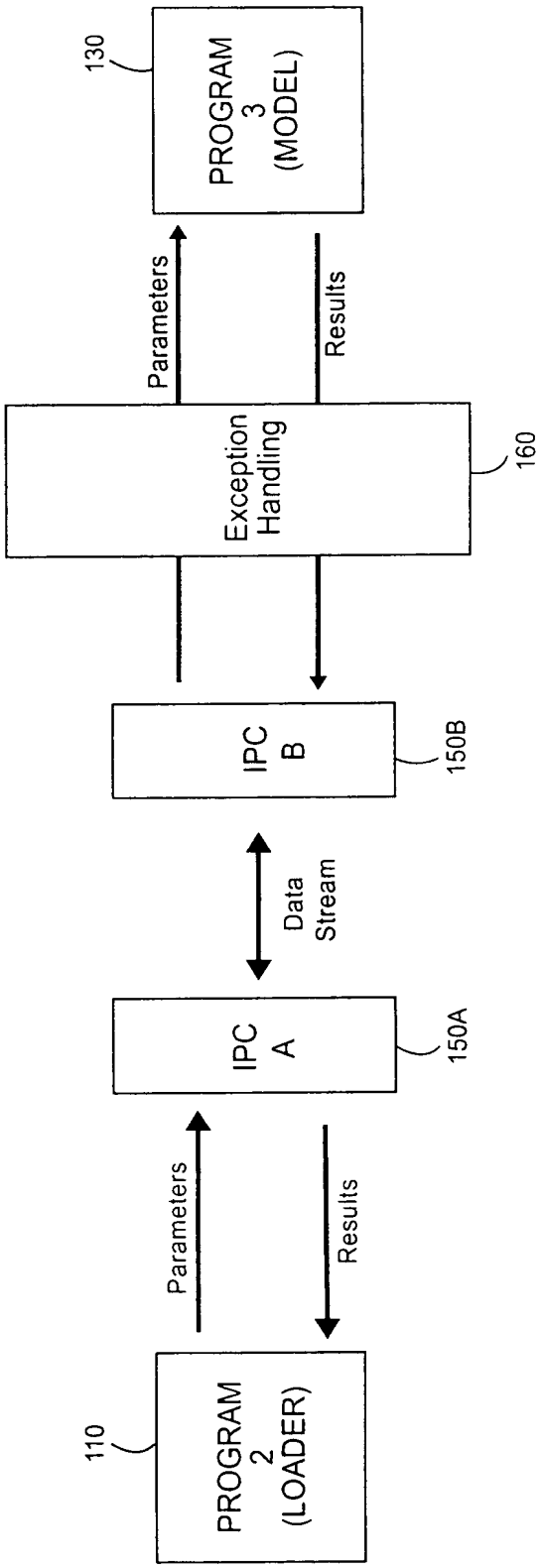
130
PROGRAM 3 (MODEL)
Parameters
Results
Exception Handling
160
IPC B
150B
Data Stream
IPC A
150A
Parameters
Results
110
PROGRAM 2 (LOADER)

FIG.2

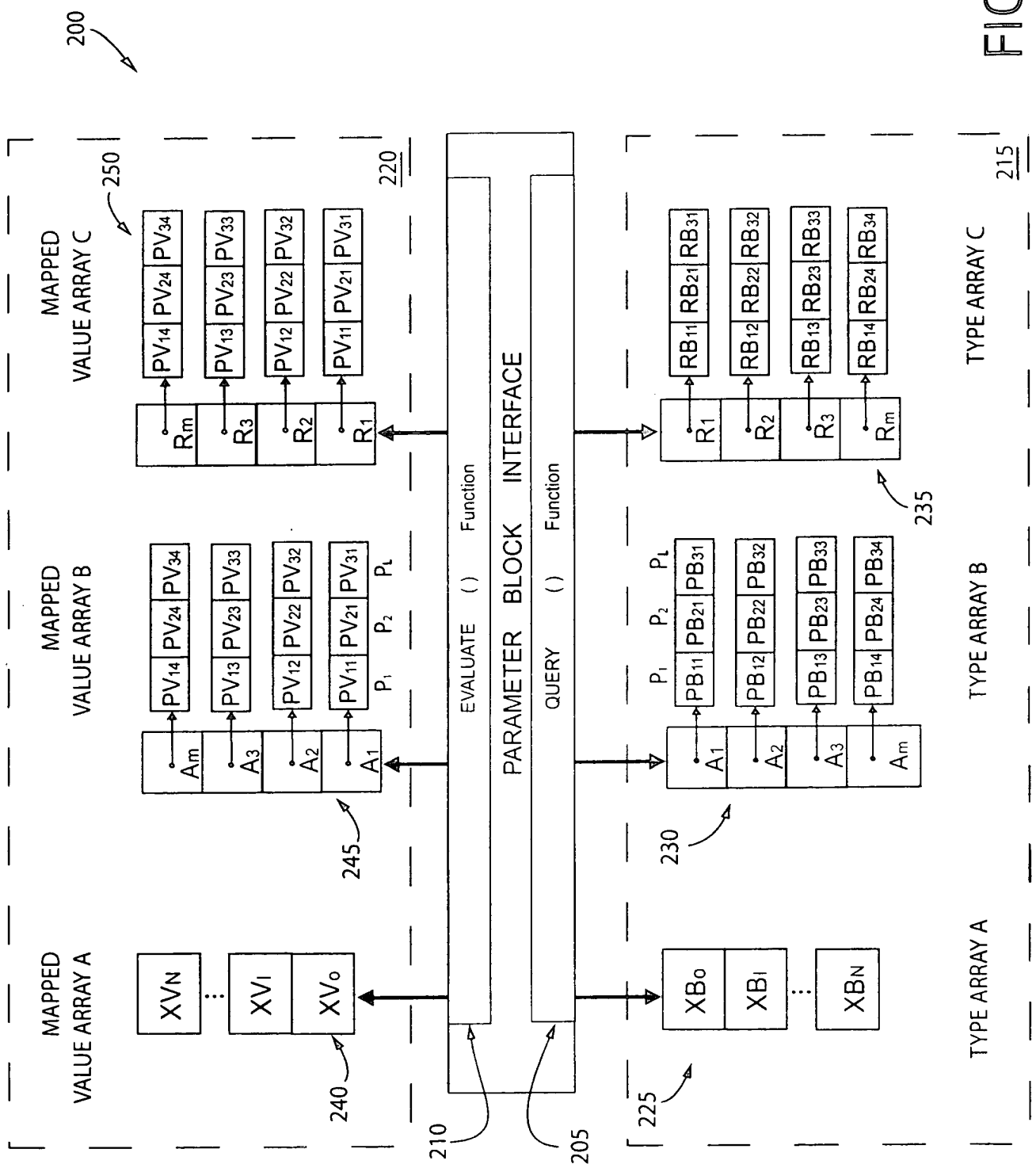
200
MAPPED VALUE ARRAY A
MAPPED VALUE ARRAY B
MAPPED VALUE ARRAY C
TYPE ARRAY A
TYPE ARRAY B
TYPE ARRAY C
PARAMETER BLOCK INTERFACE
EVALUATE ( ) Function
QUERY ( ) Function
210
205
220
215
225
240
245
230
235
250

FIG. 3

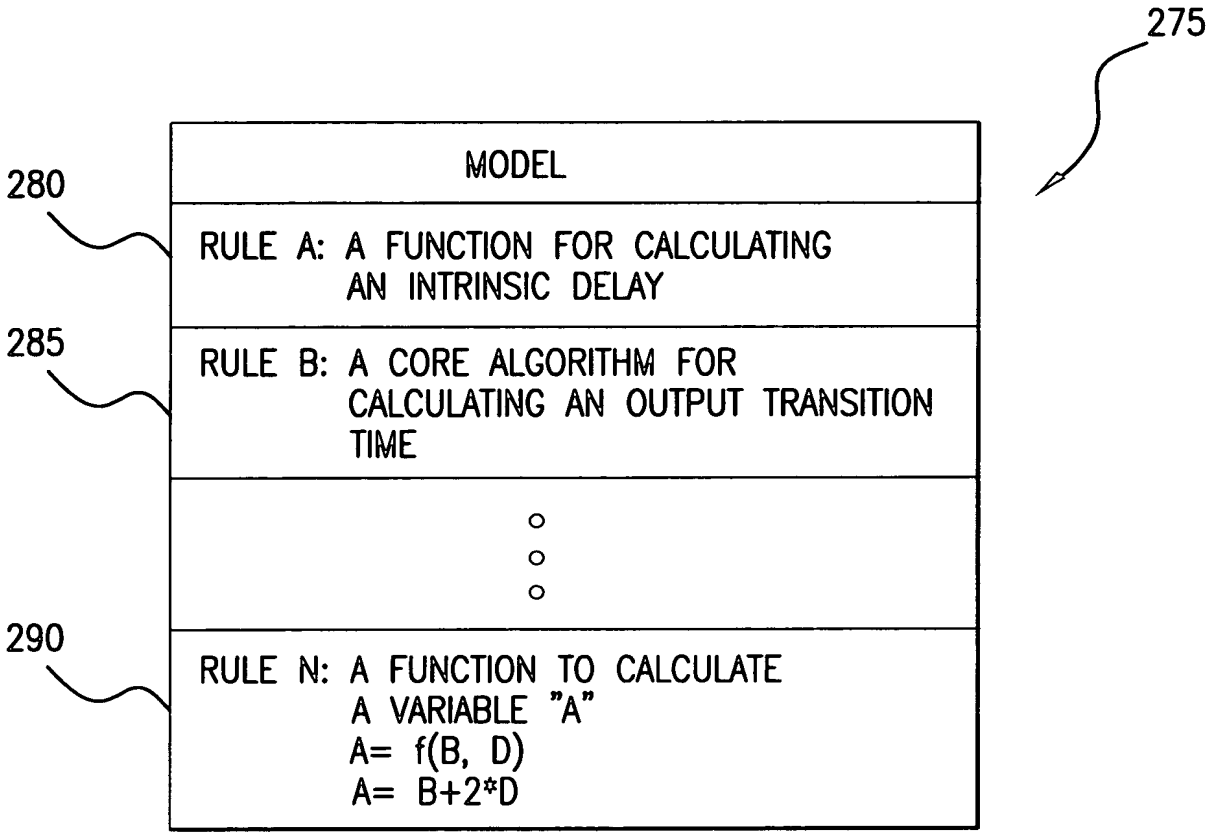
275
MODEL
280
RULE A: A FUNCTION FOR CALCULATING AN INTRINSIC DELAY
285
RULE B: A CORE ALGORITHM FOR CALCULATING AN OUTPUT TRANSITION TIME
290
RULE N: A FUNCTION TO CALCULATE A VARIABLE "A"
A= f(B, D)
A= B+2*D

FIG.4

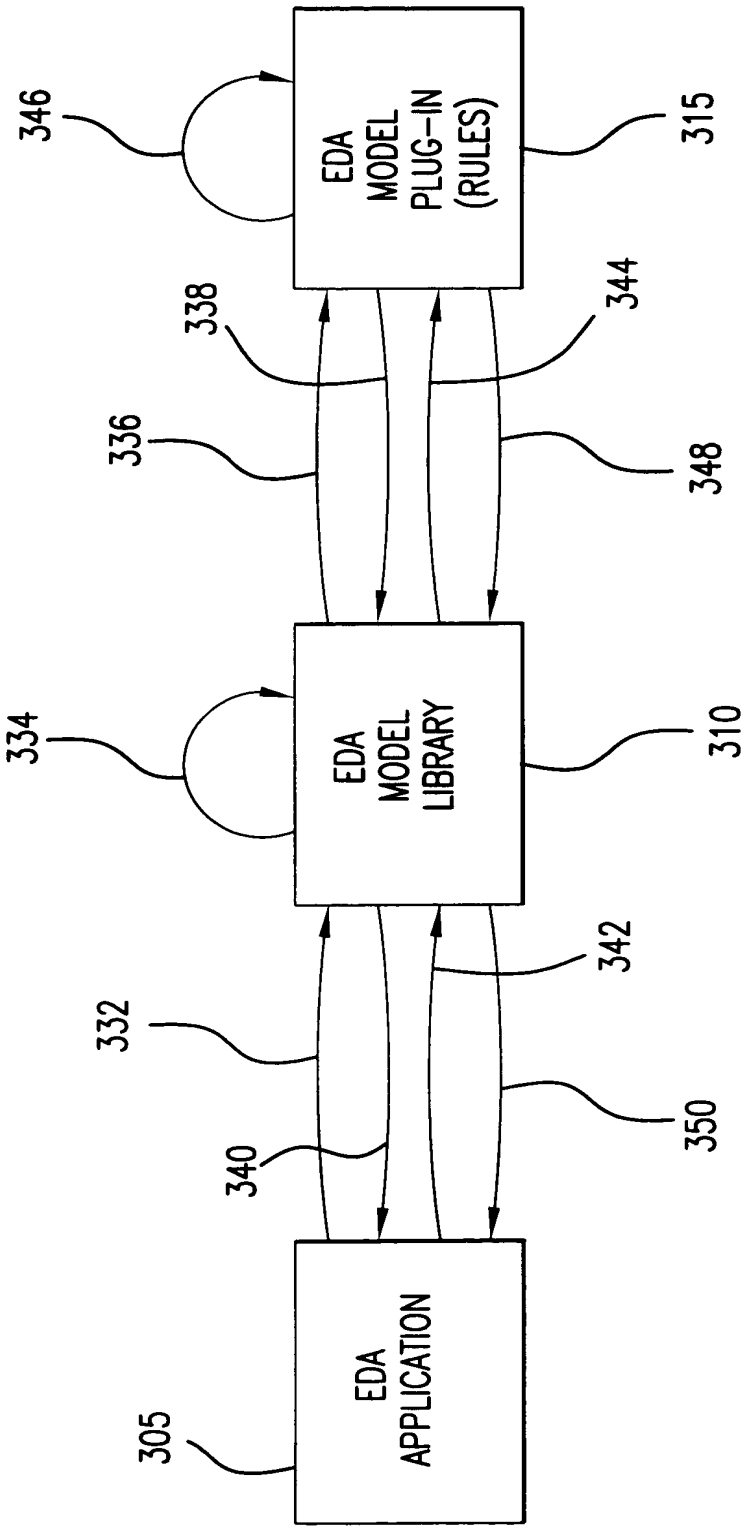
EDA MODEL PLUG-IN (RULES)
EDA MODEL LIBRARY
EDA APPLICATION
346
315
338
344
336
348
334
310
342
332
350
340
305

FIG.5

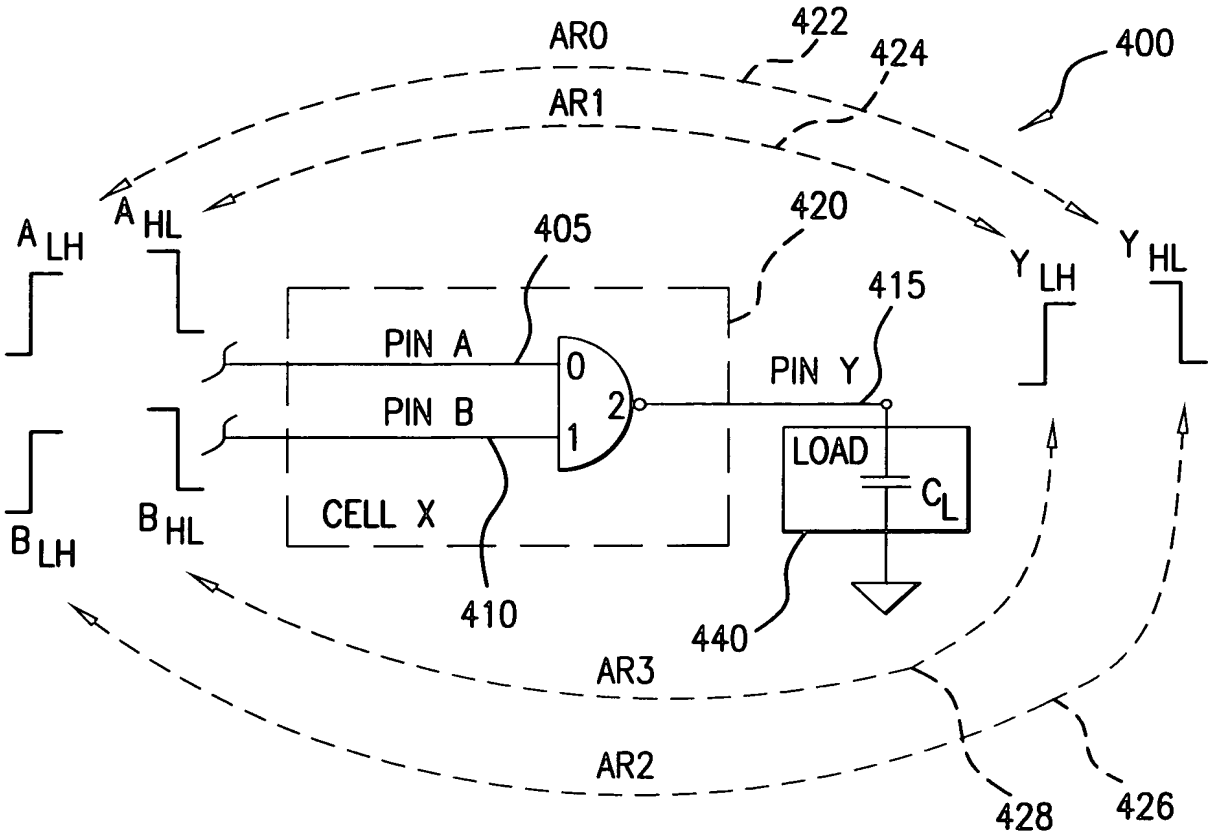

FIG.6A

ARC RULES	INPUT AT		OUPUT AT
	PIN A	PIN B	PIN Y
AR0	A_{LH}	I	Y_{HL}
AR1	A_{HL}	I	Y_{LH}
AR2	I	B_{LH}	Y_{HL}
AR3	I	B_{HL}	Y_{LH}

422
424
426
428

FIG.6B

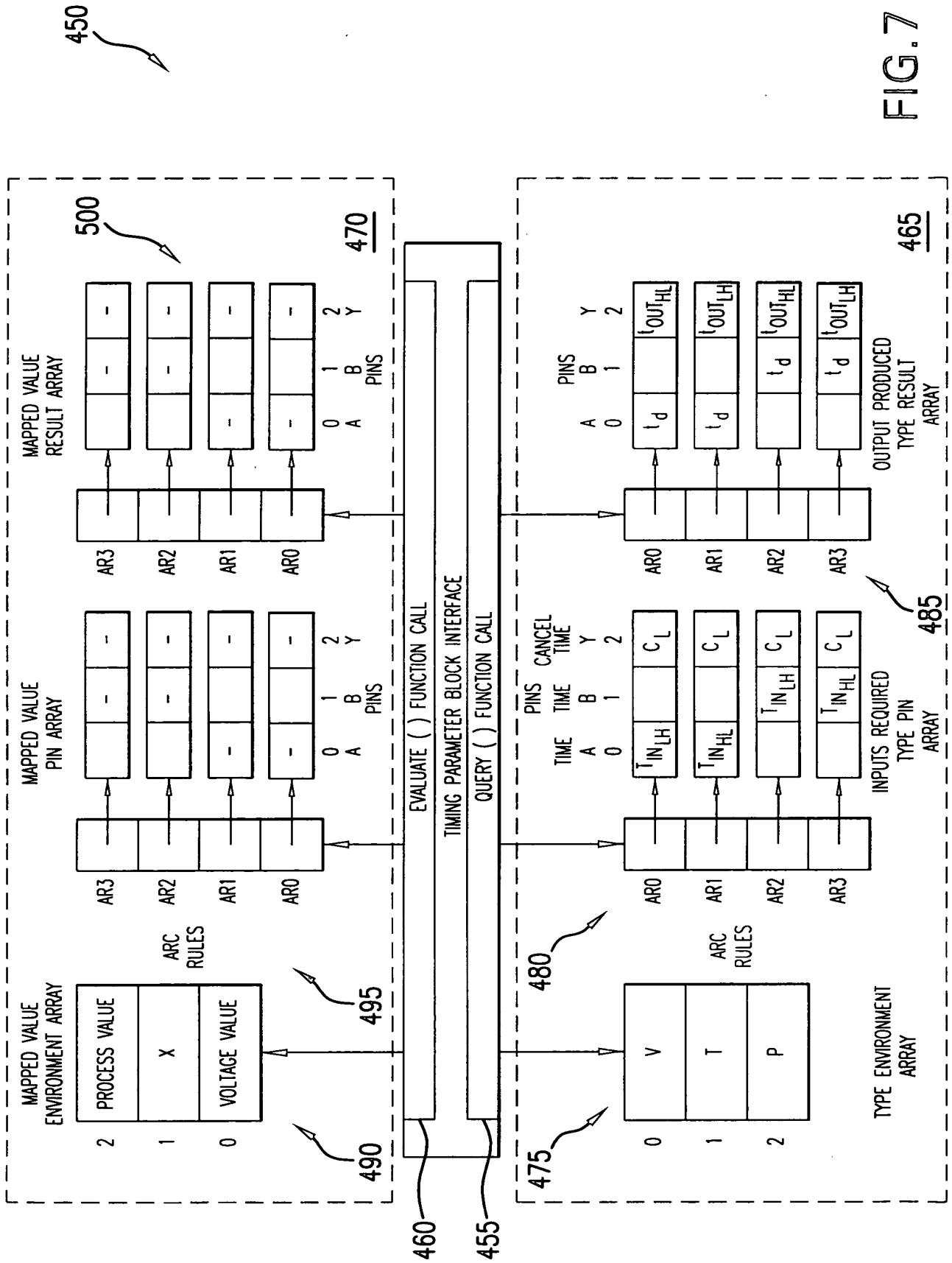
450
500
470
MAPPED VALUE RESULT ARRAY
MAPPED VALUE PIN ARRAY
MAPPED VALUE ENVIRONMENT ARRAY
PROCESS VALUE
X
VOLTAGE VALUE
ARC RULES
AR3
AR2
AR1
AR0
0 A
1 B
2 Y
PINS
495
490
EVALUATE ( ) FUNCTION CALL
TIMING PARAMETER BLOCK INTERFACE
QUERY ( ) FUNCTION CALL
460
455
480
475
485
465
OUTPUT PRODUCED TYPE RESULT ARRAY
INPUTS REQUIRED TYPE PIN ARRAY
TYPE ENVIRONMENT ARRAY
PINS CANCEL TIME
TIME TIME
V
T
P
t_d
$t_{OUT_{HL}}$
$t_{OUT_{LH}}$
$T_{IN_{LH}}$
$T_{IN_{HL}}$
C_L

FIG. 7

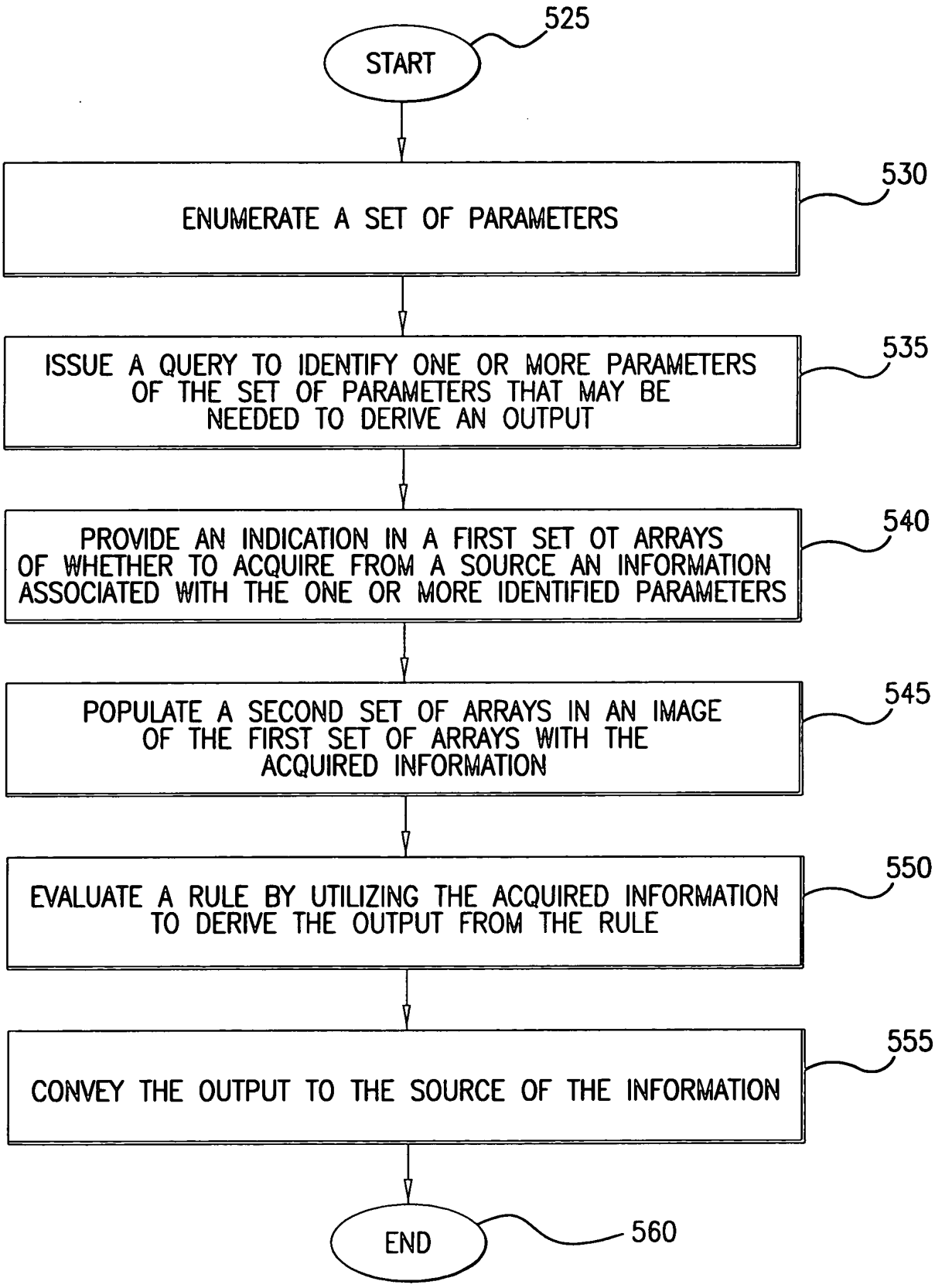
525
START
530
ENUMERATE A SET OF PARAMETERS
535
ISSUE A QUERY TO IDENTIFY ONE OR MORE PARAMETERS OF THE SET OF PARAMETERS THAT MAY BE NEEDED TO DERIVE AN OUTPUT
540
PROVIDE AN INDICATION IN A FIRST SET OT ARRAYS OF WHETHER TO ACQUIRE FROM A SOURCE AN INFORMATION ASSOCIATED WITH THE ONE OR MORE IDENTIFIED PARAMETERS
545
POPULATE A SECOND SET OF ARRAYS IN AN IMAGE OF THE FIRST SET OF ARRAYS WITH THE ACQUIRED INFORMATION
550
EVALUATE A RULE BY UTILIZING THE ACQUIRED INFORMATION TO DERIVE THE OUTPUT FROM THE RULE
555
CONVEY THE OUTPUT TO THE SOURCE OF THE INFORMATION
END
560

FIG.8A

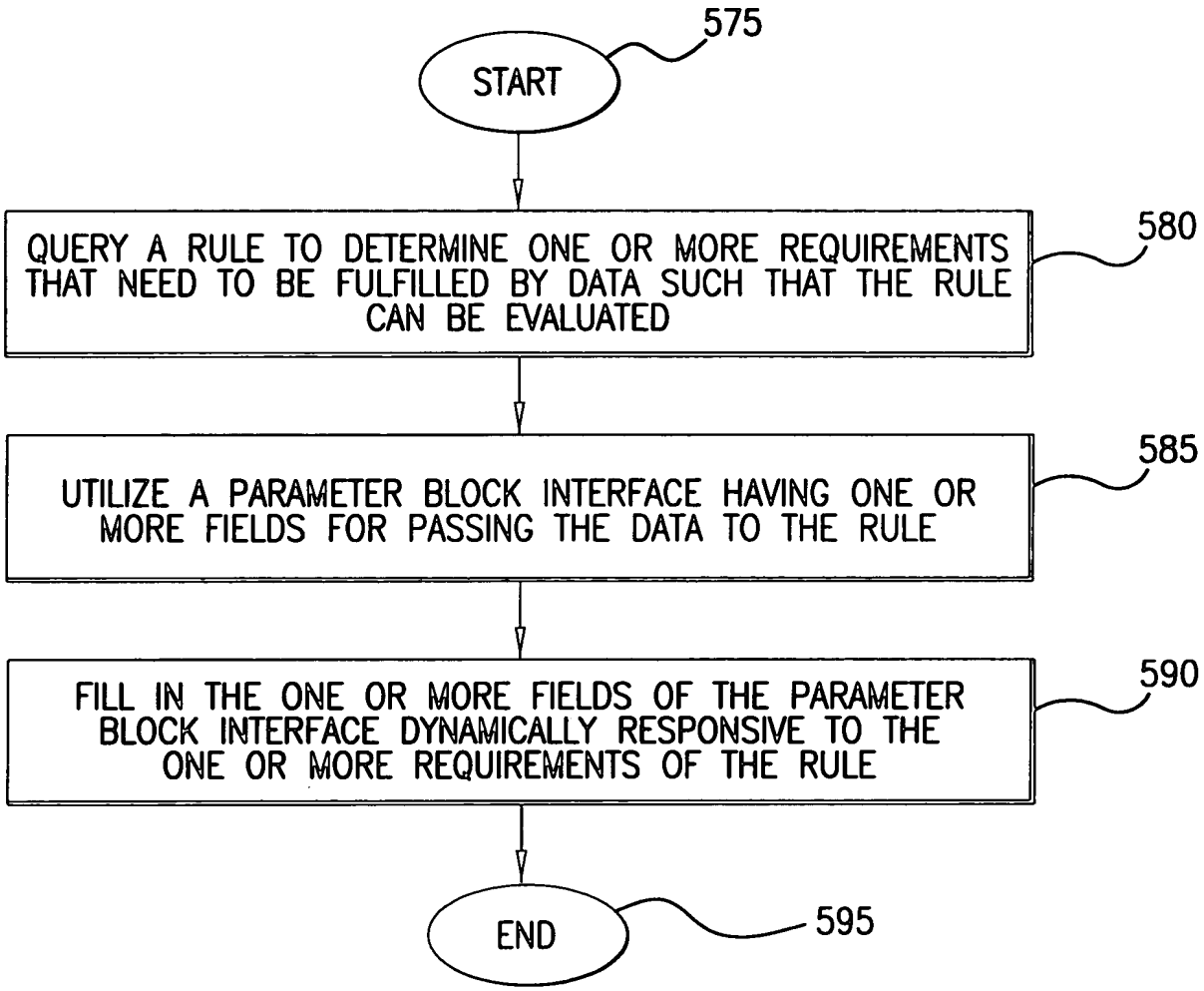
575
START
QUERY A RULE TO DETERMINE ONE OR MORE REQUIREMENTS THAT NEED TO BE FULFILLED BY DATA SUCH THAT THE RULE CAN BE EVALUATED
580
UTILIZE A PARAMETER BLOCK INTERFACE HAVING ONE OR MORE FIELDS FOR PASSING THE DATA TO THE RULE
585
FILL IN THE ONE OR MORE FIELDS OF THE PARAMETER BLOCK INTERFACE DYNAMICALLY RESPONSIVE TO THE ONE OR MORE REQUIREMENTS OF THE RULE
590
END
595

FIG.8B